

Application No. 10/053,720
Amendment dated July 9, 2003
Reply to Office Action mailed on April 9, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). An apparatus for reclaiming concrete, comprising:

a hopper with water means for introducing water to the hopper;
a separator having an inlet for receiving material from the hopper;
a rotatable screen positioned in the separator;
a first outlet for removing material from the separator; and
a second outlet for removing material from the separator.

Claim 2 (new). The apparatus of claim 1, further comprising a pump for pumping material from the hopper to the separator.

Claim 3 (new). The apparatus of claim 1, wherein the water means includes a water pump for pumping water to the hopper.

Claim 4 (new). The apparatus of claim 1, further comprising driving means for driving the rotatable screen.

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Claim 5 (new). The apparatus of claim 1, further including means for centrifugally directing material in the separator towards the first outlet.

Claim 6 (new). The apparatus of claim 1, further comprising means for screening out material larger than a predetermined size in the separator.

Claim 7 (new). The apparatus of claim 1, wherein the rotatable screen includes apertures of a predetermined size.

Claim 8 (new). The apparatus of claim 1, further comprising a sand tank for receiving material from the second outlet of the separator.

Claim 9 (new). The apparatus of claim 8, further comprising:
a first water holding tank; and
a separator outlet line connecting the first water holding tank to the separator.

Claim 10 (new). The apparatus of claim 9, further comprising a first water holding tank outlet in the bottom section of the first water holding tank.

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Claim 11 (new). The apparatus of claim 9, further comprising:
a second water holding tank; and
a first water holding tank outlet line connecting the second water holding tank to the first water holding tank.

Claim 12 (new). The apparatus of claim 11, further comprising:
a third water holding tank; and
a second water holding tank outlet line connecting the third water holding tank to the second water holding tank.

Claim 13 (new). The apparatus of claim 12, further comprising:
a fourth water holding tank; and
a third water holding tank outlet line connecting the fourth water holding tank to the third water holding tank.

Claim 14 (new). The apparatus of claim 1, further including a water pump for pumping water to the separator.

Claim 15 (new). The apparatus of claim 1, further including a baffle disposed in the hopper, the baffle having an aperture of a predetermined size.

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16 (new). A method for reclaiming rock, sand and light cement material from unused, uncured concrete, comprising the steps of:

contacting the concrete with water to create a diluted concrete slurry;

screening the concrete slurry over a rotating screen to separate out rock material to form a rock material stream and sand and light cement slurry stream;

removing the sand from the sand and light cement slurry stream to form a sand residue and a light cement slurry stream; and

separating the light cement from the cement slurry stream to form a light cement residue and a water stream.

17 (new). The method according to claim 16 further comprising the step of centrifugally directing the rock material stream away from the diluted concrete slurry.

18 (new). The method according to claim 16 further comprising the step of recycling the water stream to contact the concrete in the contacting step.

19 (new). The method according to claim 16 wherein the step of removing the sand from the sand and light cement slurry stream to form a sand residue and a light cement slurry stream is effected by gravity.

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A.1 20 (new). The method according to claim 16 wherein the step of separating the light cement from the cement slurry stream to form a light cement residue and a water stream is effected by gravity.